9

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Anthony Keith CAMPBELL

Serial No. 09/831,142
(PCT/GB99/03654)

Box PCT
Attention: DO/EO

Filed May 7,2001

PROTEIN AND DNA CODING THEREFOR

REQUEST FOR PERMISSION TO MAKE DRAWING CORRECTIONS

Commissioner for Patents

Washington, D.C. 20231

Sir:

Permission is respectfully requested to amend Figures 1, 2, 3, 4A and 4B, 5A and 5B, 6, 7A, 7B, 7C, and 9 as indicated in red on the accompanying prints.

Respectfully submitted,

YOUNG & THOMPSON

By _____

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November 13, 2001

Clone 40: (SEQ ID NO: 1)

*GAATTCGGCACGAGT*CGGAAAAGAACAAAATGGCTTGTATCGTTTTCGTT
GCTCTTGTCGCTCTATGCTTAATGCAACCGGGTTCCGGTGAGGAAGTACA
ATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTTCAACGTGGACT
GGATGACCATTTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAA
GATCGGGCTTTGGGGCTGTGTCGGATTGAACGGGCCGGCCCAGGTACCAC
AAAAGCCGTCTGGATTAACTGGAGTAACGACACGCAGTCATGTGTAACAA
GAAAAACAATCTTCTTCGAGGTTGGTGGAGAAATTGCCCGGCTAGTTGAC
TACAGACCACAGGAAGACGGAACTGAGAAAACTTTTACAAGAAAATTCTC
TAGCAAAATGCCAGGCACTTACATGCTTATGGACGTGTGCGCTACAAGGG
ACGCTGATGATAAATGCATCGAAGGCACAATTGTGGTGACAGTCAGGGTG
TCCCTATATGACGAAGATAACAATGGTGTAATGGATGAAGGTAAGGTGAT
TCCATCTGAGACAATCGAGGATGATATCAAGGACTGTGGGCTCTTAGACC
AAGATGTTGAACTCGATTATACGTGGACTCAAAACGAGTGTGATCTACCA
GACACAGTAGACGAGGCTGAAGACACACCGTCAGAAACTGGAGAATTCTT
CTGGTAGATCTATCAGACTACTTTTATCAGCAGGACAACTGGTCGTTACC
AGACACCTATAACGTGTCCTCATCAATAATGTGTAAAACAGAAATAATCG
ATAGAATATTGAAAATAAAATGTTAATAAACACTGGTTGAAATATGAAAA
AAAAAAAAAAAAA*CTCGAG*

Clone 3: (SEQ ID NO: 2)

*GAATTCGGCACGAGG*GAAAAGAACAAAATGGCTTGTATCGTTTTCGTT
GCTCTTGTCGCTCTATGCTTAATGCAACCGGGTTCCGGTGAGGAAGTACA
ATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTTCAACGTGGACT
GGATGACCATTTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAG
GATCGGGCTTTGGGGCTGTGTCGGATTGAACGGGCCGGCCCAGGTACCAC
AAAAGCCGTCTGGATTAACTGGAGTAACGACACGCAGTCATGTGTAACAA
GAAAACAATCTTCTTCGAGGTTGGTGGAGAAATTGCCCGGCTAGTTGAC
TACAGACCACAGGAAGACGGAACTGAGAAAACTTTTACAAGAAAATTCTC
TAGCAAAATGCCAGGCACTTACATGCTTATGGACGTGTGCGCTACAAGGG
ACGCTGATGATAAATGCATCGAAGGCACAATTGTGGTGACAGTCAGGGTG
TCCCTATATGACGAAGATAACAATGGTGTAATGGATGAAGGTAAGGTTAT
TCCATCTGAGACAATCGAGGATGATATCAAGGACTGTGGGCTCTTAGACC
AAGATGTTGAACTCGATTATACGTGGACTCAAAACGAGTGTGATCTACCA
GACACAGTAGACGAGGCTGAAGACACACCGTCAGAAACTGGAGAATTCTT
CTGGTAGATCTATCAGACCACTTTTTATCAGCAGGACAACTGGTCGTTACC
AGACACCTATAACGTGTCCTCATCAATAATGTGTAAAACAGAAATAATCG
ATAGAATATTGAAAATAA

Clone 5: (SEQ ID NO: 3)

*GT*CGGAAAAGAACAAAATGGCTTGTATCGTTTTCGTTGCTCTTGTCGCTCTATGCTTAATGCAACCGGG
TTCCGGTGAGGAAGTACAATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTTCAACGTGGACTG
GATGACCATTTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAGGATCGGGCTTTGGGGCTGTG
TCGGATTGAACGGGCCGGCCCAGGTACCACAAAAGCCGTCTGGATTAACTGGAGTAACGACACGCAGTC
ATGTGTAACAAGAAAAACAATCTTCTTCGAGGTTGGTGGAGAAATTGCCCGGCTAGTTGACTACAGACC
ACAGGAAGACGGAACTGAGAAAACTTTTACAAGAAAATTCTCTAGCAAAATGCCAGGCACTTACATGCT
TATGGACGTGTGCGCTACAAGGGACGCTGATGATAAATGCATCGAAGGCACAATTGTGGTGACAGTCAG
GGTGTCCCTATATGACGAAGATAACAATGGTGTAATGGATGAAGGTAAGGTTATTCCATCTGAGACAAT
CGAGGATGATATCAAGGACTGTGGGCTCTTAGACCAAGATGTTGAACTCGATTATACGTGGACTCAAAA
CGAGTGTGATCTACCAGACACAGTAGACGAGGCTGAAGACACACCGTCAGAAACTGGAGAATTCTTCTG
GTAGATCTATCAGACCACTTTTATCAGCAGGACAACTGGTCGTTACCAGACACCTATAACGTGTCCTCA
TCAATAATGTGTAAAACAGAAATAATCGATAGAATATTGAAAATAAAATGTTAATAGACACTGGTTGAA
AAAAAAAAAAAAAAAAAAC*TCGAG*

Fig. 1

```
clone 40    GAATTCGGCACGAGTCGGAAAAGAACAAAATGGCTTGTATCGTTTTCGTT
clone 3     GAATTCGGCACGAG--GGAAAAGAACAAAATGGCTTGTATCGTTTTCGTT
clone 5     -------------GTCGGAAAAGAACAAAATGGCTTGTATCGTTTTCGTT
                        * **************************************

clone 40    GCTCTTGTCGCTCTATGCTTAATGCAACCGGGTTCCGGTGAGGAAGTACA
clone 3     GCTCTTGTCGCTCTATGCTTAATGCAACCGGGTTCCGGTGAGGAAGTACA
clone 5     GCTCTTGTCGCTCTATGCTTAATGCAACCGGGTTCCGGTGAGGAAGTACA
            **************************************************

clone 40    ATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTTCAACGTGGACT
clone 3     ATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTTCAACGTGGACT
clone 5     ATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTTCAACGTGGACT
            **************************************************

clone 40    GGATGACCATTTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAA
clone 3     GGATGACCATTTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAG
clone 5     GGATGACCATTTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAG
            ********************************************** ***

clone 40    GATCGGGCTTTGGGGCTGTGTCGGATTGAACGGGCCGGCCCAGGTACCAC
clone 3     GATCGGGCTTTGGGGCTGTGTCGGATTGAACGGGCCGGCCCAGGTACCAC
clone 5     GATCGGGCTTTGGGGCTGTGTCGGATTGAACGGGCCGGCCCAGGTACCAC
            **************************************************

clone 40    AAAAGCCGTCTGGATTAACTGGAGTAACGACACGCAGTCATGTGTAACAA
clone 3     AAAAGCCGTCTGGATTAACTGGAGTAACGACACGCAGTCATGTGTAACAA
clone 5     AAAAGCCGTCTGGATTAACTGGAGTAACGACACGCAGTCATGTGTAACAA
            **************************************************

clone 40    GAAAAACAATCTTCTTCGAGGTTGGTGGAGAAATTGCCCGGCTAGTTGAC
clone 3     GAAAAACAATCTTCTTCGAGGTTGGTGGAGAAATTGCCCGGCTAGTTGAC
clone 5     GAAAAACAATCTTCTTCGAGGTTGGTGGAGAAATTGCCCGGCTAGTTGAC
            **************************************************

clone 40    TACAGACCACAGGAAGACGGAACTGAGAAAACTTTTACAAGAAAATTCTC
clone 3     TACAGACCACAGGAAGACGGAACTGAGAAAACTTTTACAAGAAAATTCTC
clone 5     TACAGACCACAGGAAGACGGAACTGAGAAAACTTTTACAAGAAAATTCTC
            **************************************************

clone 40    TAGCAAAATGCCAGGCACTTACATGCTTATGGACGTGTGCGCTACAAGGG
clone 3     TAGCAAAATGCCAGGCACTTACATGCTTATGGACGTGTGCGCTACAAGGG
clone 5     TAGCAAAATGCCAGGCACTTACATGCTTATGGACGTGTGCGCTACAAGGG
            **************************************************

clone 40    ACGCTGATGATAAATGCATCGAAGGCACAATTGTGGTGACAGTCAGGGTG
clone 3     ACGCTGATGATAAATGCATCGAAGGCACAATTGTGGTGACAGTCAGGGTG
clone 5     ACGCTGATGATAAATGCATCGAAGGCACAATTGTGGTGACAGTCAGGGTG
            **************************************************

clone 40    TCCCTATATGACGAAGATAACAATGGTGTAATGGATGAAGGTAAGGTGAT
clone 3     TCCCTATATGACGAAGATAACAATGGTGTAATGGATGAAGGTAAGGTTAT
clone 5     TCCCTATATGACGAAGATAACAATGGTGTAATGGATGAAGGTAAGGTTAT
            ************************************************** **

clone 40    TCCATCTGAGACAATCGAGGATGATATCAAGGACTGTGGGCTCTTAGACC
clone 3     TCCATCTGAGACAATCGAGGATGATATCAAGGACTGTGGGCTCTTAGACC
clone 5     TCCATCTGAGACAATCGAGGATGATATCAAGGACTGTGGGCTCTTAGACC
            **************************************************
```

Fig. 2 ***(Part 1 of 2)***

```
clone 40    AAGATGTTGAACTCGATTATACGTGGACTCAAAACGAGTGTGATCTACCA
clone 3     AAGATGTTGAACTCGATTATACGTGGACTCAAAACGAGTGTGATCTACCA
clone 5     AAGATGTTGAACTCGATTATACGTGGACTCAAAACGAGTGTGATCTACCA
            **************************************************

clone 40    GACACAGTAGACGAGGCTGAAGACACACCGTCAGAAACTGGAGAATTCTT
clone 3     GACACAGTAGACGAGGCTGAAGACACACCGTCAGAAACTGGAGAATTCTT
clone 5     GACACAGTAGACGAGGCTGAAGACACACCGTCAGAAACTGGAGAATTCTT
            **************************************************

clone 40    CTGGTAGATCTATCAGACTACTTTTATCAGCAGGACAACTGGTCGTTACC
clone 3     CTGGTAGATCTATCAGACCACTTTTATCAGCAGGACAACTGGTCGTTACC
clone 5     CTGGTAGATCTATCAGACCACTTTTATCAGCAGGACAACTGGTCGTTACC
            ****************** ****************************

clone 40    AGACACCTATAACGTGTCCTCATCAATAATGTGTAAAACAGAAATAATCG
clone 3     AGACACCTATAACGTGTCCTCATCAATAATGTGTAAAACAGAAATAATCG
clone 5     AGACACCTATAACGTGTCCTCATCAATAATGTGTAAAACAGAAATAATCG
            **************************************************

clone 40    ATAGAATATTGAAAATAAAATGTTAATAAACACTGGTTGAAATATGAAAA
clone 3     ATAGAATATTGAAAATAA----------------------------------
clone 5     ATAGAATATTGAAAATAAAATGTTAATAGACACTGGTTGAAA-----AAA
            ******************

clone 40    AAAAAAAAAAAAAACTCGAG (SEQ ID NO: 1)
clone 3     ---------------------(SEQ ID NO: 2)
clone 5     AAAAAAAAAAAAAACTCGAG (SEQ ID NO: 3)
```

Fig. 2 *(Part 2 of 2)*

*GAATTCGGCACGAG*TCGGAAAAGAACAAAA**ATGGCTTGTATCGTTTTCGTT**GCTCTTG

8S

TCGCTCTATGCTTAATGCAACCGGGTTCCGGTGAGGAAGTACAATGCGCGATGAATT

GGACACAAGCTAATGAATATGTGTTCAACGTGGACTGGATGACCATTTTCATCTACG

ACTATGGCGCTCAAGAGCAACTGTACGAAG**ATCGGGCTTTGGGGCTGTGT**CGGATTG

3A

AACGGGCCGGCCCAGGTACCACAAAAGCCGTCTGGATTAACTGGAGTAACGACACGC

AGTCATGTGTAACAAGAAAAACAATCTTCTTCGAGGTTGGTGGAGAAA**TTGCCCGGC**

4S

TAGTTGACTACAGACCACAGGAAGACGGAACTGAGAAAACTTTTACAAGAAAATTCT

CTAGCAAAATGCCAGGCACTTACATGCTTATGGACGTGTGCGCTACAAGGGACGCTG

ATGATAAAT**GCATCGAAGGCACAATTG**TGGTGACAGTCAGGGTGTCCCTATATGACG

6A

AAGATAACAATGGTGTAATGGATGAAGGTAAGGTGTTCCATCTGAGACAATCGAGGA

TGATATCAA**GGACTGTGGGCTCTTAG**ACCAAGATGTTGAACTCGATTATACGTGGAC

7S

TCAAAACGAGTGTGATCTACCAGACACAGTAGACGAGGCTGAAGACACACCGTCAGA

AACTGGAGAATTCTTCTGGTAGATCTATCAGACTACTTTTATCAGCAGGACAACTGG

TCGTTACCAGACACCTATAACGTGTCCTCATCAATAATGTGTAAAACAGAAATAATC

GATAGAATATTGAAAATAAAATG**TTAATAAACACTGGTTGAAATAT**GAAAAAAAAAA

5A

AAAAAAAA*CTCGAG*

Fig. 3 (SEQ ID NO: 1)

Untranslated region
GAATTCGGCACGAGTCGGAAAAGAACAAA
Translated region

```
ATG GCT TGT ATC GTT TTC GTT GCT CTT GTC GCT CTA TGC TTA ATG        45
M   A   C   I   V   F   V   A   L   V   A   L   C   L   M

CAA CCG GGT TCC GGT GAG GAA GTA CAA TGC GCG ATG AAT TGG ACA        90
Q   P   G   S   G   E   E   V   Q   C   A   M   N   W   T

CAA GCT AAT GAA TAT GTG TTC AAC GTG GAC TGG ATG ACC ATT TTC       135
Q   A   N   E   Y   V   F   N   V   D   W   M   T   I   F

ATC TAC GAC TAT GGC GCT CAA GAG CAA CTG TAC GAA GAT CGG GCT       180
I   Y   D   Y   G   A   Q   E   Q   L   Y   E   D   R   A

TTG GGG CTG TGT CGG ATT GAA CGG GCC GGC CCA GGT ACC ACA AAA       225
L   G   L   C   R   I   E   R   A   G   P   G   T   T   K

GCC GTC TGG ATT AAC TGG AGT AAC GAC ACG CAG TCA TGT GTA ACA       270
A   V   W   I   N   W   S   N   D   T   Q   S   C   V   T

AGA AAA ACA ATC TTC TTC GAG GTT GGT GGA GAA ATT GCC CGG CTA       315
R   K   T   I   F   F   E   V   G   G   E   I   A   R   L

GTT GAC TAC AGA CCA CAG GAA GAC GGA ACT GAG AAA ACT TTT ACA       360
V   D   Y   R   P   Q   E   D   G   T   E   K   T   F   T

AGA AAA TTC TCT AGC AAA ATG CCA GGC ACT TAC ATG CTT ATG GAC       405
R   K   F   S   S   K   M   P   G   T   Y   M   L   M   D

GTG TGC GCT ACA AGG GAC GCT GAT GAT AAA TGC ATC GAA GGC ACA       450
V   C   A   T   R   D   A   D   D   K   C   I   E   G   T

ATT GTG GTG ACA GTC AGG GTG TCC CTA TAT GAC GAA GAT AAC AAT       495
I   V   V   T   V   R   V   S   L   Y   D   E   D   N   N

GGT GTA ATG GAT GAA GGT AAG GTG ATT CCA TCT GAG ACA ATC GAG       540
G   V   M   D   E   G   K   V   I   P   S   E   T   I   E

GAT GAT ATC AAG GAC TGT GGG CTC TTA GAC CAA GAT GTT GAA CTC       585
D   D   I   K   D   C   G   L   L   D   Q   D   V   E   L

GAT TAT ACG TGG ACT CAA AAC GAG TGT GAT CTA CCA GAC ACA GTA       630
D   Y   T   W   T   Q   N   E   C   D   L   P   D   T   V

GAC GAG GCT GAA GAC ACA CCG TCA GAA ACT GGA GAA TTC TTC TGG       675
D   E   A   E   D   T   P   S   E   T   G   E   F   F   W

TAG ATC TAT CAG ACT ACT TTT ATC AGC AGG ACA ACT GGT CGT TAC       720
*

CAG ACA CCT ATA ACG TGT CCT CAT CAA TAA                          750

* = stop for translation
```

Fig. 4A (SEQ ID NOS 1 and 4)

EcoR I

GAATTCGGCACGAGTCGGAAAAGAACAAA

ATG GCT TGT ATC GTT TTC GTT GCT CTT GTC GCT CTA
TGC TTA ATG CAA CCG GGT TCC GGT GAG GAA GTA CAA
TGC GCG ATG AAT TGG ACA CAA GCT AAT GAA TAT GTG
TTC AAC GTG GAC TGG ATG ACC ATT TTC ATC TAC GAC
TAT GGC GCT CAA GAG CAA CTG TAC GAA GAT CGG GCT
TTG GGG CTG TGT CGG ATT GAA CGG GCC GGC CCA GGT
ACC ACA AAA GCC GTC TGG ATT AAC TGG AGT AAC GAC
ACG CAG TCA TGT GTA ACA AGA AAA ACA ATC TTC TTC
GAG GTT GGT GGA GAA ATT GCC CGG CTA GTT GAC TAC
AGA CCA CAG GAA GAC GGA ACT GAG AAA ACT TTT ACA
AGA AAA TTC TCT AGC AAA ATG CCA GGC ACT TAC ATG
CTT ATG GAC GTG TGC GCT ACA AGG GAC GCT GAT GAT
AAA TGC ATC GAA GGC ACA ATT GTG GTG ACA GTC AGG
GTG TCC CTA TAT GAC GAA GAT AAC AAT GGT GTA ATG
GAT GAA GGT AAG GTG ATT CCA TCT GAG ACA ATC GAG
GAT GAT ATC AAG GAC TGT GGG CTC TTA GAC CAA GAT
GTT GAA CTC GAT TAT ACG TGG ACT CAA AAC GAG TGT
GAT CTA CCA GAC ACA GTA GAC GAG GCT GAA GAC ACA
CCG TCA GAA ACT GGA GAA TTC TTC TGG **TAG**
ATCTATCAGACTACTTTTATCAGCAGGACAACTGGTCGTTACCAGAC
ACCTATAACGTGTCCTCATCAATAATGTGTAAAACAGAAATAATCGA
TAGAATATTGAAAATAAAATGTTAATAAACACTGGTTGAAATATGAA
AAAAAAAAAAAAAAAA*CTCGAG*

Xho I

Fig. 4B (SEQ ID NO: 1)

EEVQCAMNWTQANEYVFNVDWMTIFIYDYGAQEQLYEDRALGLCRIERAGPGTTKAV
WINWSNDTQSCVTRKTIFFEVGGEIARLVDYRPQEDGTEKTFTRKFSSKMPGTYMLM
DVCATRDADDKCIEGTIVVTVRVSLYDEDNNGVMDEGKVIPSETIEDDIKDCGLLDQ
DVELDYTWTQNECDLPDTVDEAEDTPSETGEFFW

Fig. 5A (SEQ ID NO: 5)

MACIVFVALVALCLMQPGSGEEVQCAMNWTQANEYVFNVDWMTIFIYDYGAQEQLYE
DRALGLCRIERAGPGTTKAVWINWSNDTQSCVTRKTIFFEVGGEIARLVDYRPQEDG
TEKTFTRKFSSKMPGTYMLMDVCATRDADDKCIEGTIVVTVRVSLYDEDNNGVMDEG
KVIPSETIEDDIKDCGLLDQDVELDYTWTQNECDLPDTVDEAEDTPSETGEFFW

Fig. 5B (SEQ ID NO: 6)

```
clone 40    GAATTCGGCACGAGTCGGAAAAGAACAAAATGGCTTGTATCGTTTTCGTT
BioXAct                                 TGGCTTGTATCGTTTTCGTT
rTth

clone 40    GCTCTTGTCGCTCTATGCTTAATGCAACCGGGTTCCGGTGAGGAAGTACA
BioXAct     GCTCTTGTCGCTCTATGCTTAATGCAACCGGGTTCCGGTGAGGAAGTACA
rTth                    TATGCTTAATGCAACCGGGTTCCGGTGAGGAAGTACA
                        ************************************

clone 40    ATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTTCAACGTGGACT
BioXAct     ATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTTCAACGTGGACT
rTth        ATGCGCGATGAATTGGACACAAGCTAATGAATATGTGTTCAACGTGGACT
            **************************************************

clone 40    GGATGACCATTTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAA
BioXAct     GGATGACCATTTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAA
rTth        GGATGACCATTTTCATCTACGACTATGGCGCTCAAGAGCAACTGTACGAA
            **************************************************

clone 40    GATCGGGCTTTGGGGCTGTGTCGGATTGAACGGGCCGGCCCAGGTACCAC
BioXAct     GATCGGGCTTTGGGGCTGTGTCGGATTGAACGGGCCGGCCCAGGTACCAC
rTth        GATCGGGCTTTGGGGCTGTGTCGGATTGAACGGGCCGGCCCAGGTACCAC
            **************************************************

clone 40    AAAAGCCGTCTGGATTAACTGGAGTAACGACACGCAGTCATGTGTAACAA
BioXAct     AAAAGCCGTCTGGATTAACTGGAGTAACGACACGCAGTCATGTGTAACAA
rTth        AAAAGCCGTCTGGATTAACTGGAGTAACGACACGCAGTCATGTGTAACAA
            **************************************************

clone 40    GAAAAACAATCTTCTTCGAGGTTGGTGGAGAAATTGCCCGGCTAGTTGAC
BioXAct     GAAAAACAATCTTCTTCGAGGTTGGTGGAGAAATTGCCCGGCTAGTTGAC
rTth        GAAAAACAATCTTCTTCGAGGTTGGTGGAGAAATTGCCCGGCTAGTTGAC
            **************************************************

clone 40    TACAGACCACAGGAAGACGGAACTGAGAAAACTTTTACAAGAAAATTCTC
BioXAct     TACAGACCACAGGAAGACGGAACTGAGAAAACTTTTACAAGAAAATTCTC
rTth        TACAGACCACAGGAAGACGGAACTGAGAAAACTTTTACAAGAAAATTCTC
            **************************************************

clone 40    TAGCAAAATGCCAGGCACTTACATGCTTATGGACGTGTGCGCTACAAGGG
BioXAct     TAGCAAAATGCCAGGCACTTACATGCTTATGGACGTGTGCGCTACAAGGG
rTth        TAGCAAAATGCCAGGCACTTACATGCTTATGGACGTGTGCGCTACAAGGG
            **************************************************

clone 40    ACGCTGATGATAAATGCATCGAAGGCACAATTGTGGTGACAGTCAGGGTG
BioXAct     ACGCTGATGATAAATGCATCGAAGGCACAATTGTGGTGACAGTCAGGGTG
rTth        ACGCTGATGATAAATGCATCGAAGGCACAATTGTGGTGACAGTCAGGGTG
            **************************************************

clone 40    TCCCTATATGACGAAGATAACAATGGTGTAATGGATGAAGGTAAGGTGAT
BioXAct     TCCCTATATGACGAAGATAACAATGGTGTAATGGATGAAGGTAAGGTGAT
rTth        TCCCTATATGACGAAGATAACAATGGTGTAATGGATGAAGGTAAGGTGAT
            **************************************************

clone 40    TCCATCTGAGACAATCGAGGATGATATCAAGGACTGTGGGCTCTTAGACC
BioXAct     TCCATCTGAGACAATCGAGGATGATATCAAGGACTGTGGGCTCTTAGACC
```

Fig. 6 (Part 1 of 2)

```
rTth          TCCATCTGAGACAATCGAGGATGATATCAAGGACTGTGGGCTCTTAGACC
              **************************************************

clone 40      AAGATGTTGAACTCGATTATACGTGGACTCAAAACGAGTGTGATCTACCA
BioXAct       AAGATGTTGAACTCGATTATACGTGGACTCAAAACGAGTGTGATCTACCA
rTth          AAGATGTTGAACTCGATTATACGTGGACTCAAAACGAGTGTGATCTACCA
              **************************************************

clone 40      GACACAGTAGACGAGGCTGAAGACACACCGTCAGAAACTGGAGAATTCTT
BioXAct       GACACAGTAGACGAGGCTGAAGACACACCGTCAGAAACTGGAGAATTCTT
rTth          GACACAGTAGACGAGGCTGAAGACACACCGTCAGAAACTGGAGAATTCTT
              **************************************************

clone 40      CTGGTAGATCTATCAGACTACTTTTATCAGCAGGACAACTGGTCGTTACC
BioXAct       CTGGTAGATCTATCAGACTACTTTTATCAGCAGGACAACTGGTCGTTACC
rTth          CTGGTANATCTATCAGACTACTTTTATCAGCAGGACAACTGGTCGTTACC
              ****** **************************************************

clone 40      AGACACCTATAACGTGTCCTCATCAATAATGTGTAAAACAGAAATAATCG
BioXAct       AGACACCTATAACGTGTCCTCATCAATAATGTGTAAAACAGAAATAATCG
rTth          AGACACCTATAACGTGTCCTCATCAATAATGTGTAAAAC
              ***************************************

clone 40      ATAGAATATTGAAAATAAAATGTTAATAAACACTGGTTGAAATATGAAAA
BioXAct       ATAGAATATTGAAAATAAAATGTTAATAAACACTGGTTGAAATATGAA
rTth

clone 40      AAAAAAAAAAAAAACTCGAG (SEQ ID NO: 1)
BioXAct                            (piece of SEQ ID NO: 1)
rTth                               (SEQ ID No: 23)
```

Fig. 6 ***(Part 2 of 2)***

Oligo 1

ACI ATH TTY TTY CAR GT

Oligo 2

CAR GAR GAR GGN ACI GA

Oligo 2A

TCI GTN CCY TCY TCY TG

Oligo N

TTY AAY GTI GAY TGG ATG

M=A/C R=A/G W=A/T S=G/C Y=C/T
K=G/T

V=A/C/G H=A/C/T D=A/G/T B=C/G/T N=A/C/G/T
I=inosine

Fig. 7A
(SEQ ID NOS 7-10, respectively, in order of appearance)

Oligo 3A

ACA CAG CCC CAA AGC CCG AT

Oligo 4S

TTG CCC GGC TAG TTG ACT AC

Oligo 5A

CAT ATT TCA ACC AGT GTT TAT TAA

Oligo 6A

CAA TTG TGC CTT CGA TGC A

Oligo 7S

GGA CTG TGG GCT CTT AG

Oligo 8S

ATG GCT TGT ATC GTT TTC GT

Oligo T7

Fig. 7B
(SEQ ID NOS 11-16, respectively, in order of appearance)

Oligo ExS

CCA CAC GGA TCC TGA GGA AGT ACA ATG

Oligo ExA

CCA CAC GGA TCC TTA TTG ATG AGG ACA

Oligo Bac1

CTT GTT TTT ATG GTC GTC TAC ATT TCT TAC ATC TAT GCG GAG GAA GTA CAA TG

Oligo C9 12

CCA CAC AGA TCT AGA ATG AAA TTC TTA GTC AAC GTT GCC CTT GTT TTT ATG GTC

Oligo BV5

TTT ACT GTT TTC GTA ACA GTT TTG

Oligo BV3

CAA CAA CGC ACA GAA TCT AG

Fig. 7C

(SEQ ID NOS 17-22, respectively, in order of appearance)

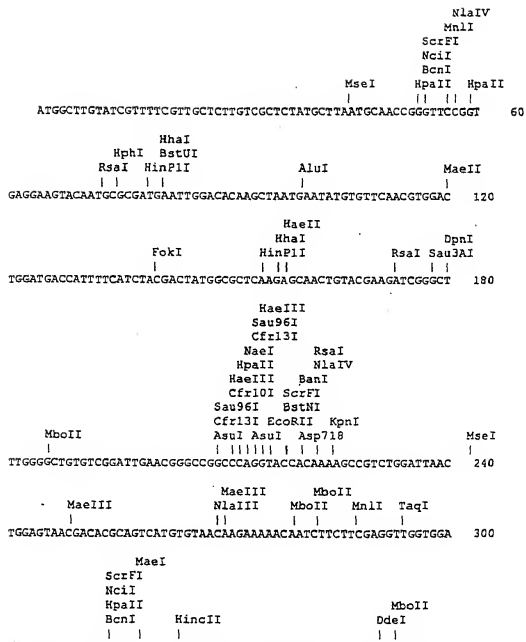

Fig. 9 (Part 1 of 2)
(piece of SEQ ID No: 1)